

Departmental Profile- Biotechnology

About The Department:

The Department of Biotechnology was established in the year 2006 to run undergraduate course. Our current intake capacity is sixty students for undergraduate course. We offer Biotechnology subject with Chemistry and any one option from Microbiology/Botany/Zoology. The department also runs Post graduation courses during 2010-2014. The department has highly qualified, experienced and dedicated faculty with specialization in Molecular Biology, Plant Tissue Culture, Agricultural Environmental Microbiology, Immunology and Bioinformatics. The aim of department is to foster knowledge in students pertaining to basic and advance in biotechnology field.

Bajaj College of Science, Wardha has been granted autonomous status from the academic year 2017-18. The curriculum under autonomy has been modified 20% by highly experienced subject experts in consultation with academicians, research scientists and industry personnel to meet the latest requirements of biotechnology industries. The faculty and the students of the department are involved in various co curricular and extracurricular activities. It is also inculcating entrepreneurial skills in biotechnology graduates who would fulfill the role of job providers rather than jobseekers.

The department has well furnished laboratories with all equipments to impart more hands on training to the students and to carry out their projects. It has both college central library and departmental library where reputed International and National editions of books are made available to the students and faculties. Coordinator, Dr. Ulka Malode and Faculty, Dr. Kunal Kale Look after the class conducted by IIT Bombay spoken tutorial class.

Alumni of the department occupy good positions in various industries like Meril Diagnostic Pvt.Ltd., Glenmark Pharmceutical Ltd., Wipro Ltd, TCS, Eclerx services; Capgemini India Pvt Ltd. Graduating students normally find good fellowships in higher education and pursue their career in reputed institutes like NISER, Bhubaneswar and IIT-Roorkee.

Recent Achievement of Students:

1. Ms. Anam Sayyed has succesfully completed a project under the guidance of Dr. Sahil Akhtar CDRI, Luckhnow as a summer research fellow the Programme jointly organised by IASc., Bangalore, INSA, New Delhi and NASI, Prayagraj during May-July 2019.
2. Ms. P. Kawate, Ms. A. Charode, Ms. S. Zade, Ms. N. Bhagat, Ms. N. Bhagat, Ms. K. Mendhe and Ms. P. Salwe won 3rd in rangoli competition held on the occasion of inauguration of “Microbiology Biotechnology society” of Bajaj College of Science, Wardha on September 16, 2019. In the next session Ms. Roshani Bhosale, Ms. Lakshniparvati Gharpure and Ms. Firdos Nasrin Abu Salam Shaikh won 2nd prize in poster competition held on September 17, 2019. Mrs. Supriya Kashikar, Chief Executive Officer of Genex Pvt. Ltd. Nagpur was invited as chief guest. The complete two days session was evaluated by Head of Department of Botany Dr. Dalal and faculty Dr Arti Huse.
3. Miss. Divya Kuratkar won 3rd Prize in poster Competition in International Conference on “Future Tech of Life Science” organized at S.K. Porwal College, Kamptee in association with Microbiologist Society of India on February 14 and 15, 2020.

Co- curricular Activities of the Department:

Department has formed jointly with Microbiology Department a Microbiology-Biotechnology society. The purpose of the formation of society by students is to provide platform for them to explore their ideas related with subject. The society organizes various activities like guest lectures, poster competition, wall magazine, educational tours etc. This society helps to develop the leadership qualities among the student. Prof. Incharge of this society is Dr. Ulka Malode.

Guest Lecture on “Entrepreneurship and Career Opportunities in Biotechnology” and “Waste Management Practices” delivered by Dr. Ashish Polkade, Director, Vision Ecologica Pvt. Ltd., Pune, organized by Department of Biotechnology on July 20, 2019 for the B.Sc. and M.Sc. students.

Department of Biotechnology has organized one day workshop on “Basic Techniques in Bioinformatics” held on August 13, 2019, for M.Sc. and B.Sc. student of Bajaj College of science, delivered by Dr. Kunal A. Kale. Total 50 B.Sc. and M.Sc. students benefited by this workshop.

Department of Biotechnology organized “Biotechnology Open-Day” activity held on September 28, 2019, under the guidance of principal of Bajaj College of science Dr. Om Mahodaya and coordinator of Department of Biotechnology Dr. Ulka Malode and faculty Dr. Kunal Kale and Dr. Achal Rathi take efforts for the success of the event. The main objective of this event is to spread the knowledge of biotechnology among the junior college students.

Dr. Kunal A. Kale invited as a Guest Speaker for 2 days Workshop on “Dravya” 2019 at Mahatma Gandhi Ayurveda Medical College, Hospital and Research, Salod, Wardha held on December 20 and 21, 2019. “Workshop on Identification and standardization on Medicinal Plants in researches of Ayurveda”.

Department of Biotechnology has organized one day workshop on March 5, 2020. Dr. Kunal Kale faculty of Department of biotechnology gives hands on “Methodology and Application of Restriction Enzyme Based Technology”. Total 22 students of PG Department of Botany benefited by this workshop.

Industry-Academia Interaction Programme:

Department of Biotechnology has organized study tour on January 8, 2020. Total 50 B. Sc. students along with Coordinator of Department of Biotechnology Dr. Ulka Malode and faculty, Dr. Kunal Kale and Dr. Achal Rathi and nonteaching staff Shri Kiran Badwaik and Mrs. Smita Gaikwad visited Forensic Science Laboratory, Institute of Science, Nagpur and Ankur Seeds, Neri, Nagpur with kind cooperation and good wishes from principal Dr. Om Mahodya. Student gets benefited by this tour since they get motivated by the working and the research carried out in the research institutes.

Social Outreach Programme of the Department:

Dr. Ulka A. Malode delivered a popular talk on “Importance of Swachata (Clean India, Green India), Current status of Plastic Usage among India” under the banner Cleanliness Drive to NSS Students held on September 18, 2019.

Lockdown Activities:

During this lockdown period, assignments can be given to students and collected from students as a pdf. Which is evaluated by faculty and if student have any difficulties then it is discuss on group. Creation of Whatsapp group of BSc I, II and III year for effective and easy communication of student and faculty. Soft copy of reference book, Power point presentation and animation related with syllabus of BSc I, II and III year are uploaded on whatsapp group, so every student get study material. Submission of question bank on web page of Bajaj College of science, for the student of BSc I, II and III Year.


Department of Biotechnology, Bajaj College of Science, Wardha, organized online multiple choices quiz on “A COVID-19 Quiz to Test your Knowledge of Pandemic Trivia ” under the guidance of Principal of Bajaj college of science, Dr. Om Mahodaya and Coordinator of Department of Biotechnology Dr.Ulka Malode to create awareness among student regarding Corona Virus Pandemic and also to support Government efforts to fight with it. More than 450 Students, teaching, Non teaching staff of Bajaj college of sciences and students, teaching and non teaching staff from other college participants in this COVID-19 Quiz.


Multiple choices question based online test was arranged for the student of BSc. I, II and III Year. The test was based on biotechnology syllabus, and we ask student total 10 question. Student shows active participation in this activity and maximum student score 8 to 9 marks out of 10. All facultys prepared video lecture for students of B.Sc. Semester III and V.


All Faculty of Department of Biotechnology, Bajaj College of Science, Wardha has successfully completed the online course on awareness of COVID- 19. Participate and successfully completed quiz on awareness of COVID- 19 organised by various colleges. Along with that participate on National Webinar and Faculty Development Program on online teaching and E-content.


Dr. Ulka Malode Participated in 10 day faculty development programing "Effective Ways to develop e-content for Teaching Learning". During May 21 to 30, 2020 organized by M. V. P. Samaj's K. R. T. Art B. H. Commerce and A. M. Science (K. T. M. H.) College, Nashik and UGC.- HRDC. S.P.P. University, Pune.

Faculty Profile:

Name	Dr.(Mrs.) Ulka A Malode-Bidwai			
Designation	Assistant Professor - Microbiology			
Coordinator	Department of Biotechnology Clinical Laboratory Technology (Add on course)			
Teaching Experience	17 years (including Clock hour/contractual basis and regular)			
Academic Qualification	Degree	Faculty	Name of University	Year of Passing /Award
	Ph.D	Science	Sant Gadge Baba Amravati University, Amravati.	2007
	M.Sc	Science	Sant Gadge Baba Amravati University, Amravati.	2002
	B.Sc	Science	Sant Gadge Baba Amravati University, Amravati.	2000
Research Interest	Agricultural and Environmental Microbiology			
Recent research Articles	https://scholar.google.co.in/scholar?hl=en&q=ulka+a+bidwai&btnG=			
Membership	Association of Microbiologist of India(AMI)			
Contact Address	Dept of Microbiology,Bajaj College of Science,Civil-lines,Wardha.442001			
E-mail	ulka9malode@gmail.com			

Name	Dr. Kunal Ashok Kale			
Designation	Assistant Professor (Cont. Basis)			
Department	Biotechnology			
Teaching Experience	2 years			
Academic Qualification	Degree	Faculty	Name of University	Year of Passing /Award
	Ph.D	Science	Sant Gadge Baba Amravati University,Amravati	2016
	M.Sc.	Science	Sant Gadge Baba Amravati University, Amravati	2007
	B.Sc.	Science	Sant Gadge Baba Amravati University,	2005
Research Interest	Molecular biology and Bioinformatics.			
Contact Address	Dept. of Biotechnology, Bajaj College of Science, Civil Line, Wardha			
E-mail	biotech.kunal13@gmail.com			

Name	Dr. Anchal Priya			
Designation	Assistant Professor - Biotechnology			
Teaching /Research Experience	1 year of Teaching experience 8 Years of research experience			
Academic Qualification	Degree	Subject	Name of University	Year of Passing /Award
	Ph.D.	Microbiology	TERI University, New Delhi	2018
	M.Sc	Biotechnology	KIIT University, Bhubaneswar	2009
	B.Sc	Biotechnology	UGC Center of Biotechnology, Patna University	2006
Research Interest	Industrial and Environmental Biotechnology, Bioprocess Engineering			
Recent Research Articles	https://scholar.google.co.in/citations?user=Tix7c14AAAAJ&hl=en			
Awards	<ul style="list-style-type: none"> • Best Oral presentation award in the Joint Indo-UK Scoping workshop on 'Development of Rural Biorefineries in India: From Waste to Wealth 'on 'Development of Rural Biorefineries in India: From Waste to Wealth ' held on 20th February 2017 at Delhi University. • Young Scientist award by SERB, DST to present poster in Green and Sustainable Chemistry Conference, Berlin Germany (April 2016). 			
Contact Address	Department of Biotechnology, Bajaj College of Science, Civil-lines, Wardha.442001			
E-mail	Priya.anchalpriya@gmail.com			

Name	Miss. Komal Satish Dhumane			
Designation	Assistant Professor (Contract basis)			
Department	Biotechnology			
Area of Specialization	Microbiology			
Academic Qualification	Degree	Stream	College/University	Year of Passing
	M. Sc. (Microbiology)	Science	Department of Microbiology, Jankidevi Bajaj College of Science, Wardha. (Autonomous College)	2019
	B. Sc.	Science	Jankidevi Bajaj College of Science, Wardha. (Autonomous College)	2017
Research Interest	Agriculture and Environmental Microbiology (PGPR)			
Recent Research Article	http://scholar.google.com/citations?user=M5Vgeb4AAAAJ&hl=en			
Contact Address	Department of Biotechnology, Bajaj College of Science, Jannalal Bajaj Marg, Civil Lines, Wardha, 442001. Residence-: Rajkala Talkies Road, Wardha. 442001			
E-mail	komal03dhumane@gmail.com			

Non-teaching Staff:

Name	Designation	Experience
Sulochana Kumbhalkar	Laboratory Assistant	21 years
Mr. Kirankumar M. Badwaik	Laboratory Attendant	15 years
Ku. Smita L. Gaikwad	Laboratory Attendant	21 years